

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 98/04799

A. CLASSIFICATION OF SUBJECT MATTER
IPC 6 H04L9/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 6 H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category >	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 594 797 A (ALANAERAE SEppo ET AL) 14 January 1997	1,2,7,9, 14,15, 21-23
A	see abstract see column 2, line 5 - line 32 see column 6, line 29 - line 43 see column 8, line 1 - line 12 see column 9, line 61 - line 67 see figures 2,3 ---	16
X	US 5 159 634 A (REEDS III JAMES A) 27 October 1992 cited in the application	21-23
A	see column 3, line 7 - line 17 see column 9, line 43 - line 60 see column 10, line 4 - line 31 see figures 8,10,11 see claim 1 ---	1,16
		-/-

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

2 document member of the same patent family

Date of the actual completion of the international search

Date of mailing of the international search report

14 August 1998

20/08/1998

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INTERNATIONAL SEARCH REPORT

Int. dional Application No
PCT/US 98/04799

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 214 703 A (MASSEY JAMES L ET AL) 25 May 1993 see abstract -----	1,16,21, 22

INTERNATIONAL SEARCH REPORT

Information on patent family members

Int'l	Final Application No
PCT/US	98/04799

Patent document cited in search report	Publication date	Patent family member(s)			Publication date
US 5594797	A 14-01-1997	BR	9600772 A		23-12-1997
		CA	2168717 A		23-08-1996
		CN	1136738 A		27-11-1996
US 5159634	A 27-10-1992	EP	0532228 A		17-03-1993
		FI	924090 A		14-03-1993
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		EP	0482154 A		29-04-1992
		JP	5500121 T		14-01-1993